

REINFORCED STACKED PLATE HEAT EXCHANGER

ABSTRACT OF THE DISCLOSURE

A heat exchanger with a plurality of stacked plates between a cover plate and a base plate. Channels are defined between the plates, with each plate including four openings defining four passages through the stacked plates, two passages being input and output passages for one fluid and the other two passages being input and output passages for a second fluid, where the two fluids flow between their input and output passages through alternating defined channels. A reinforcing body is disposed in at least one of the passages through the stacked plates, and is secured to the cover plate and the base plate and spaced from the sides of the openings defining the at least one passage in the stacked plates between the cover and base plates.